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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/584,566	05/31/2000	Leonard Forbes	303.691US1	3884
21186 75	590 03/20/2003			
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			EXAMINER	
P.O. BOX 2938 MINNEAPOLI			JACKSON JR	, JEROME
			ART UNIT	PAPER NUMBER
			2815	21
			DATE MAILED: 03/20/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	(h)
		Application No.	Applicant(s)
-, *	Office Action Summary	09/584,566	FORBES ET AL.
	Office Action Summary	Examiner	Art Unit
	The MAIL ING DATE of this country of	Jerome Jackson Jr.	2815
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet with th	e correspondence address
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati in period for reply specified above is less than thirty (30) days in period for reply is specified above, the maximum statutory ire to reply within the set or extended period for reply will, by eply received by the Office later than three months after the adequated term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a reply boon. , a reply within the statutory minimum of thirty (30) period will apply and will expire SIX (6) MONTHS to statute, cause the application to become ABAND	e timely filed  days will be considered timely. from the mailing date of this communication.  DNED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed or	n <u>23 December 2002</u> .	
2a) 🗌	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.	
3) 🗌 Disposit	Since this application is in condition for a closed in accordance with the practice u on of Claims	allowance except for formal matters nder <i>Ex parte Quayle</i> , 1935 C.D. 1	, prosecution as to the merits is 1, 453 O.G. 213.
4) 🖾	Claim(s) 1-23 is/are pending in the applic	cation.	
	4a) Of the above claim(s) is/are wit	hdrawn from consideration.	
5)	Claim(s) is/are allowed.		
6)🖂	Claim(s) 1-23 is/are rejected.		
7) 🗌	Claim(s) is/are objected to.		
8)[	Claim(s) are subject to restriction a	and/or election requirement.	
Applicati	on Papers		
9) 🗌 .	The specification is objected to by the Exa	miner.	
10)[	Γhe drawing(s) filed on is/are: a)□	accepted or b)⊡ objected to by the E	xaminer.
	Applicant may not request that any objection	to the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11) 🔲 .	The proposed drawing correction filed on _	is: a)□ approved b)□ disap	proved by the Examiner.
	If approved, corrected drawings are required	in reply to this Office action.	
12) 🔲 -	Γhe oath or declaration is objected to by th	e Examiner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. § 119	9(a)-(d) or (f).
a)[	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority docu	ments have been received.	
	2. Certified copies of the priority docu	ments have been received in Applic	ation No
	3. Copies of the certified copies of the application from the Internationate the attached detailed Office action for a	al Bureau (PCT Rule 17.2(a)).	-
14) 🗌 A	cknowledgment is made of a claim for dor	nestic priority under 35 U.S.C. § 11	9(e) (to a provisional application).
a	☐ The translation of the foreign languag	e provisional application has been r	received.
Attachment	(s)		
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94) nation Disclosure Statement(s) (PTO-1449) Paper No	3) S) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)
S. Patent and Tr TO-326 (Rev		ce Action Summary	Part of Paper No. 21

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The new limitations reciting voltage characteristics are vague and indefinite because "at least one vertical gate" does not specify the control or floating vertical gate. Furthermore, it is not seen how there can be a percentage of a voltage described in the claim language. There is no antecedent basis for these recitations in the specification and the exact structure intended is vague and indefinite. Note also that voltages measure differences in electric potential between points in space. There is a voltage difference between the various points of the device, i.e. floating gate-control gate, floating gate-substrate, control gate-substrate, etc, however that is a function of applied voltage which can be adjusted. Does applicant intend capacitance values and measurements rather than voltage measurements?

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-11,13-17,19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horiguchi, IEDM.

The previous rejection still applies.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horiguchi in view of Watanabe or Hong.

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The previous rejection still applies.

Applicant's arguments filed 23 December 2002 have been fully considered but they are not persuasive. Arguments that the voltage levels claimed are not shown in the prior art are unconvincing of patentability. First, the claims are vague and indefinite. Secondly, the structure of the claims is shown in the prior art regardless of the functional language in the claims. Accordingly, any functional language is not considered to distinguish the structure over the applied art. Again, because the prior art teaches side gate structure similar to applicant, the relative capacitance values and corresponding voltage parameters (q=cV) is shown in the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 703 308 4937. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lee can be reached on 703 308 4915. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308 7722 for regular communications and 703 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

jj Na

March 19, 2003

JEROME JACKSON PRIMATEY EXAMINER Art Unit: 2815